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PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: : Charles Q. Zhan et al.  
Application No. : 10/717,086  
Filed : November 19, 2003  
For : APPARATUS AND METHOD FOR IDENTIFYING  
DEFECTIVE VALVES  
Art Unit : 2863  
Examiner : Xiuqin Sun

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to the duty of disclosure under 37 C.F.R. § 1.56, Applicant submits this statement. This submittal is made in accordance with 37 C.F.R. §§ 1.97 and 1.98 and § 609 of the Manual of Patent Examining Procedure. The references herein are listed below and on the attached Forms PTO/SB/08A & B. Copies of the listed publications are submitted herewith.

**U.S. Patent No.**

**Inventor**

**Date**

5,262,958

Chui et al.

November 16, 1993

04/24/2006 EAYALEW1 00000005 10717086

02 FC:1806

180.00 0P

**Publications**

Simon G. Braun, "The Signature Analysis of Sonic Bearing Vibrations", IEEE Transactions on Sonics and Ultrasonics, Vol. SU-27, No. 6, November 1980, pp. 317-328.

Y. Gao et al., "Wavelet-Based Pressure Analysis for Hydraulic Pump Health Diagnosis", Transactions of the ASAE, Vol. 46(4), pp. 969-976.

Horch A, "A Simple Method for Detection of Stiction In Control Valves", Control Engineering Practice, Pergamon Press, Oxford, GB, Vol. 7, 1999, pp. 1221-1231.

Applicant hereby expressly reserves the right to swear behind the effective dates of any of the above Patents and to question the relevance and materiality of the Patents and Publications listed herein, in whole, in part, or in combination, subsequent to filing this Information Disclosure Statement.


This Information Disclosure Statement is being transmitted after the mailing date of the first Office Action on the merits. Therefore, Applicant encloses a check in the amount of \$180.00 for the Information Disclosure Statement filing fee.

Respectfully submitted,

DAVIS MUNCK BUTRUS, P.C.

Date: April 17, 2006

P.O. Drawer 800889  
Dallas, Texas 75380  
Phone: (972) 628-3600  
Fax: (972) 628-3616  
Email: [wmunck@davismunck.com](mailto:wmunck@davismunck.com)

  
\_\_\_\_\_  
William A. Munck  
Registration No. 39,308

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet	1	of	2
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**Complete if Known**

Application Number	10/717,086
Filing Date	November 19, 2003
First Named Inventor	Charles Q. Zhan
Art Unit	2863
Examiner Name	Xiuqin Sun
Attorney Docket Number	120 06739US

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/717,086		
		Filing Date	November 19, 2003		
		First Named Inventor	Charles Q. Zhan		
		Art Unit	2863		
		Examiner Name	Xiuqin Sun		
Sheet	2	of	2	Attorney Docket Number	I20 06739US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BA	Simon G. Braun, "The Signature Analysis of Sonic Bearing Vibrations", IEEE Transactions on Sonics and Ultrasonics, Vol. SU-27, No. 6, November 1980, pp. 317-328.	
	BB	Y. Gao et al., "Wavelet-Based Pressure Analysis for Hydraulic Pump Health Diagnosis", Transactions of the ASAE, Vol. 46(4), pp. 969-976.	
	BC	Horch A, "A Simple Method for Detection of Stiction In Control Valves", Control Engineering Practice, Pergamon Press, Oxford, GB, Vol. 7, 1999, pp. 1221-1231.	

Examiner Signature		Date Considered	
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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